FLOW →

Approx. 50'

3'-0" Min. — 3'-0" Min.

LONGITUDINAL SECTION

10'-0" Min.

PLAN

**TYPICAL DETAIL
SILT BASIN**

Roadway

Normal Slope

Foreslope
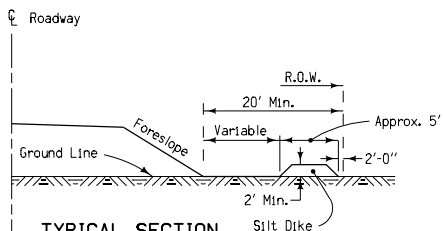
℄ Roadway Ditch

Silt Basin Width

Backslope
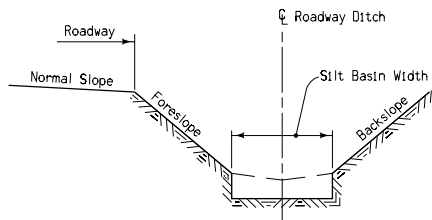
**TYPICAL CROSS SECTION
SILT BASIN**

FLOW →

Silting Basin

Letdown, Outlet Structure or other.

Normal Ditch Grade (Variable)

Spacing Variable ①
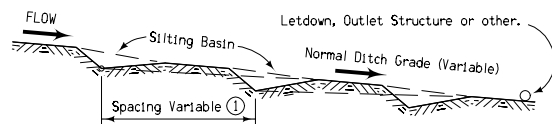
TYPICAL LONGITUDINAL SECTION OF DITCH

① Locations to be approved by the Engineer.

℄ Roadway

R.O.W.

20' Min.

Variable

Approx. 5'

Foreslope

Ground Line

2' Min.

2'-0"

Silt Dike

**TYPICAL SECTION
SILT DIKE**

Siltation Area

Construct Silt Dike

Construct Silt Basin

Flow

Base of Fill

Flow

Toe of Backslope

Roadway Ditch

Toe of Foreslope

Connect silt dike to foreslope to provide silt trap.

Culvert

Edge of Pavement
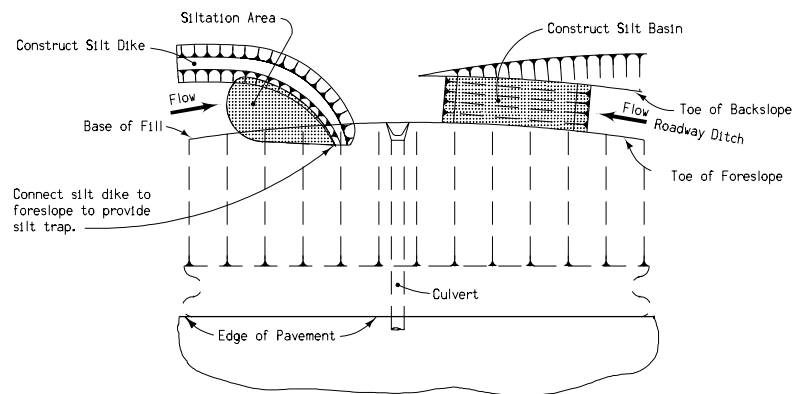
**TYPICAL PLAN
CULVERT INSTALLATION**

(Showing siltation provision at ends of culvert)

Normal R.O.W. Limit

Design Inlet Elev.

Dike or Roadway

Draw or Roadway Ditch

2' Min.

Pipe Culvert

Natural Ground

Siltation Provision:
Leave fill down during construction and use as silt basin
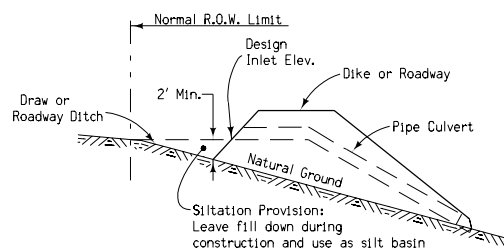
**TYPICAL SECTION
CULVERT INSTALLATION
WITH SILTATION PROVISION**

℄ Roadway

Ground Line

Foreslope Variable

R.O.W.

20' Min.

10' Min.

Silt Ditch

2'-0" Min.

**TYPICAL SECTION
SILT DITCH**

℄ Roadway

R.O.W.

20' Min.

Foreslope

10'

4.0%

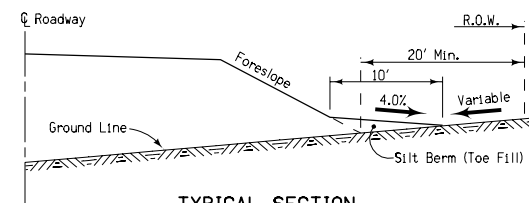Variable

Ground Line

Silt Berm (Toe Fill)
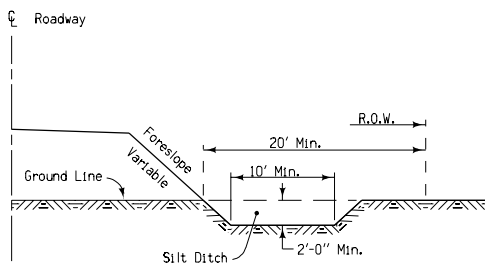
**TYPICAL SECTION
TOE FILLET**

GENERAL NOTES:

Silt Basins shall be constructed by removing earth from locations so that a basin similar to that described will result. Silt Ditches shall be constructed by making uniform excavation in natural terrain. Silt Dikes shall be constructed by depositing and compacting earth to a uniform shape. Where Silt Ditches are specified, the Contractor may construct either a Silt Dike or Silt Ditch.

SPECIAL NOTE:

For areas where either regular roadway ditch, Silt Ditch, or Silt Dikes are not provided, the Contractor will be required to construct an earth fillet at the toe of the roadway foreslope. This toe fillet will not be paid for separately but considered incidental to "Roadway and Borrow Excavation".

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN	RL-9

REVISION: Change shape and size of Silt Basin.

	REVISION NO.
William J. Stein	6
	REVISION DATE
APPROVED BY DESIGN METHODS ENGINEER	10-21-03

**TEMPORARY EROSION
CONTROL MEASURES**